

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

690 Walnut Ave.St. 150

Vallejo, CA 94592-1133

(707) 649-5453

(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-025345**Date Inspected:** 25-Jul-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1630**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Job Site

CWI Name:	William Sherwood and Fred Von EWI			EWI Present:	Yes	No
Inspected CWI report:	Yes	No	N/A	Rod Oven in Use:	Yes	No N/A
Electrode to specification:	Yes	No	N/A	Weld Procedures Followed:	Yes	No N/A
Qualified Welders:	Yes	No	N/A	Verified Joint Fit-up:	Yes	No N/A
Approved Drawings:	Yes	No	N/A	Approved WPS:	Yes	No N/A
				Delayed / Cancelled:	Yes	No N/A
Bridge No:	34-0006			Component:	SAS Tower	

Summary of Items Observed:

Caltrans Office of Structural Material (OSM) Quality Assurance Inspector (QAI) Joselito Lizardo was present at the Self Anchored Suspension (SAS) job site as requested to perform observations on the welding of components for the San Francisco Oakland Bay Bridge (SFOBB) Project.

FW Spencer:

At location Panel Point PP27 to PP29 of OBG grid line E5, this QA randomly observed FW Spencer qualified welder Rick Kiikvee ID-5319 perform Complete Joint Penetration (CJP) 6G (all position) Shielded Metal Arc Welding (SMAW) welding root pass to cover pass on the 2.5" and 4" diameter air and domestic water lines respectively. The system lines being welded are field splices along the grid line of E5 of the OBG. The welder was noted welding the root pass with 3/32" diameter E6010 electrode and followed by fill pass to cover pass using 3/32" diameter E7018H4R electrode implementing Caltrans approved procedure FW Spencer WPS 1-12-1. The welder was noted preheating and removing the moisture of the joint using a portable propane gas torch prior welding. During welding, ABF QC William Sherwood was noted monitoring the parameters of the welder. At the end of the shift, two (2) field splices on each line (2 ½" & 4") were completed and visually accepted by QC. This QA performed VT verification on the completed weld splices and they appear in compliance to the Contract requirements.

At location Panel Point PP42 to PP43 of grid line E5, this QA randomly observed FW Spencer qualified welder Rick Kiikvee ID-5319 perform Complete Joint Penetration (CJP) 6G (all position) Shielded Metal Arc Welding (SMAW) welding root pass to cover pass on the drains of 2.5" and 4" diameter air and domestic water lines

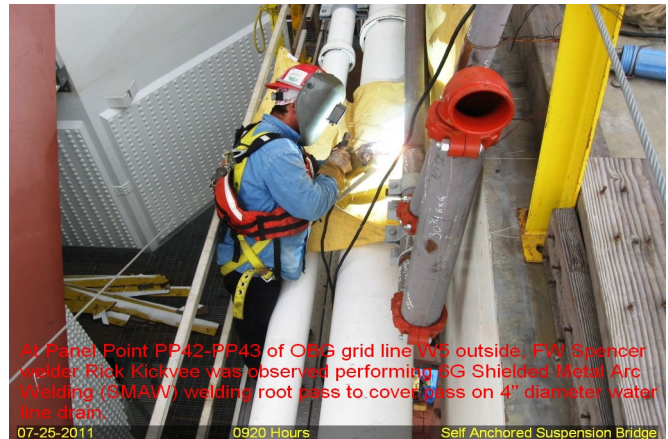
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respectively. The air and water line systems being welded are field welds along the grid line of E5 of the OBG. The welder was noted welding the root pass with 3/32" diameter E6010 electrode and followed by fill pass to cover pass using 3/32" diameter E7018H4R electrode implementing Caltrans approved procedure FW Spencer WPS 1-12-1. The welder was noted preheating and removing the moisture of the joint using a portable propane gas torch prior welding. During welding, ABF QC William Sherwood was noted monitoring the parameters of the welder. At the end of the shift, one drain on each line was completed and was visually accepted by QC.

At location Panel Point PP42 to PP43 of grid line W5, this QA randomly observed FW Spencer qualified welder Rick Kiikvee ID-5319 perform Complete Joint Penetration (CJP) 6G (all position) Shielded Metal Arc Welding (SMAW) welding root pass to cover pass on the drains of 2.5" and 4" diameter air and domestic water lines respectively. The air and water line systems being welded are field welds along the grid line of W5 of the OBG. The welder was noted welding the root pass with 3/32" diameter E6010 electrode and followed by fill pass to cover pass using 3/32" diameter E7018H4R electrode implementing Caltrans approved procedure FW Spencer WPS 1-12-1. The welder was noted preheating and removing the moisture of the joint using a portable propane gas torch prior welding. During welding, ABF QC William Sherwood was noted monitoring the parameters of the welder. At the end of the shift, one drain on each line was completed and was visually accepted by QC.

At OBG 10E panel point PP86-PP87 side plate 'C' outside, QA randomly observed ABF welder Xiao Jian Wan continuing to perform fillet and partial joint penetration (PJP) welding in 2F/2G position using Shielded Metal Arc Welding (SMAW) with 1/8" diameter E7018H4R electrode. The welder was noted welding on 2 1/4" wide x 3/8" thick drip plate to the side plate 'C' of the OBG. The drip plate and the surface of the side plate (where the drip plate was welded) were noted ground and the paint coating removed. ABF QC Fred Von Hoff was noted monitoring the welding and its parameters. Measured welding parameter of 135 amperes was noted at the time. At the end of the shift, fillet and PJP welding was still continuing and should continue tomorrow.



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Summary of Conversations:

No significant conversation occurred today.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact SMR Nina Choy 510-385-5910, who represents the Office of Structural Materials for your project.

Inspected By: Lizardo, Joselito

Quality Assurance Inspector

Reviewed By: Levell, Bill

QA Reviewer